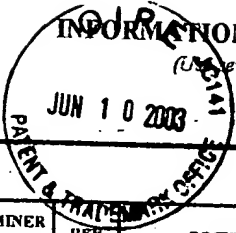


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Docket Number (Optional) 0256003	Application Number 09/632,803
Applicant(s) T. Rappaport et al.	
Filing Date 8/4/00	Group Art Unit #5

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AB	1	4,675,147	6-23-87	Schaefer et al.	—	—	4-6-83
	2	4,736,453	4-5-88	Schloemer	—	—	12-10-85
	3	4,885,694	12-5-89	Pray et al.	—	—	4-29-87
	4	5,111,392	5-5-92	Malin	—	—	6-9-89
	5	5,119,307	6-2-92	Blaha et al.	—	—	12-22-89
	6	5,239,487	8-24-93	Horejsi et al.	—	—	10-24-90
	7	5,293,640	3-8-94	Gunmar et al.	—	—	
	8	5,307,261	4-26-94	Maki et al.	—	—	6-28-91
	9	5,337,149	8-9-94	Kozah et al.	—	—	11-12-92
	10	5,339,184	8-16-94	Tang	—	—	6-15-92
↓	11	5,375,123	12-20-94	Andersson et al.	—	—	2-5-93

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Docket Number (Optional)

02560036

Application Number

09/632,803

Applicant(s)

T. Rappaport et al.

Filing Date

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Group Art Unit

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MB	12	5,394,522	2-28-95	Sanchez-Frank et al.	—	—	9-13-93
	13	5,450,615	9-12-95	Fortune et al.	—	—	12-22-93
	14	5,458,123	10-17-95	Unger	—	—	4-29-94
	15	5,465,390	11-7-95	Cohen	—	—	2-12-93
	16	5,482,050	1-9-96	Smokoff et al.	—	—	2-17-94
	17	5,485,568	1-16-96	Venable et al.	—	—	10-8-93
	18	5,491,644	2-13-96	Pickering et al.	—	—	9-7-93
	19	5,491,837	2-13-96	Haartsen	—	—	3-7-94
	20	5,493,679	2-20-96	Virgil et al.	—	—	10-29-93
	21	5,515,269	5-7-96	Willis et al.	—	—	11-8-93
✓	22	5,528,518	6-18-96	Bradshaw et al.	—	—	10-25-94

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Applicant(s) T. Rappaport et al.			
Filing Date 8/4/00		Group Art Unit	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MB	23	5,539,665	7-23-96	Lamming et al.	—	—	7-25-94
	24	5,553,312	9-3-96	Gathey et al.	—	—	6-20-94
	25	5,553,620	9-10-96	Snider et al.	—	—	5-2-95
	26	5,555,354	9-10-96	Strasnick et al.	—	—	3-23-93
	27	5,561,841	10-1-96	Markus	—	—	
	28	5,564,070	10-8-96	Want et al.	—	—	7-30-93
	29	5,594,946	1-14-97	Menich et al.	—	—	2-28-95
	30	5,598,532	1-28-97	Liron	—	—	10-21-93
	31	5,625,827	4-29-97	Krause et al.	—	—	12-23-94
	32	5,636,344	6-3-97	Lewis	—	—	8-22-91
✓	33	5,689,355	11-18-97	Okubo et al.	—	—	7-1-96

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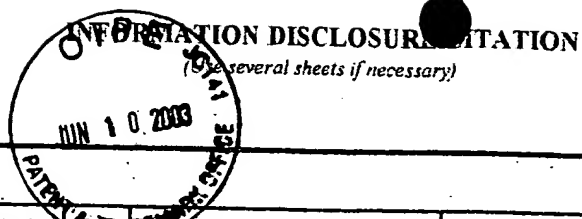
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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AB	34	5,761,093	6-2-98	Urbish et al.	—	—	5-8-97
	35	5,794,128	8-11-98	Brockel et al.	—	—	9-20-95
	36	5,799,154	8-25-98	Kuriyan	—	—	6-27-96
	37	5,809,282	8-15-98	Cooper et al	—	—	6-7-95
	38	5,815,395	9-29-98	Hart et al.	—	—	6-29-95
	39	5,828,960	10-27-98	Tang et al.	—	—	3-31-95
	40	5,831,610	11-3-98	Tonelli et al.	—	—	2-23-96
	41	5,832,389	11-3-98	Dent	—	—	4-3-96
	42	5,861,887	1-19-99	Butler et al.	—	—	12-5-95
	43	5,867,112	2-2-99	Kost	—	—	5-14-91
✓	44	5,877,777	3-2-99	Colwell	—	—	4-7-97

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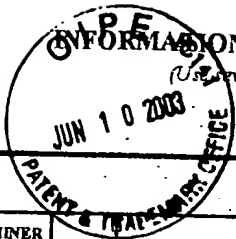
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Applicant(s) T. Rappaport et al.	
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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>AB</i>	45	5,878,328	3-2-99	Chawla et al.	—	—	12-21-95
	46	5,907,850	5-25-99	Krause et al.	—	—	1-21-97
	47	5,917,808	6-29-99	Koshab	—	—	1-17-97
	48	5,923,850	7-13-99	Barroux	—	—	6-28-96
	49	5,926,762	7-20-99	Arpee et al.	—	—	5-17-96
	50	5,940,196	8-17-99	Piehler et al.	—	—	5-16-97
	51	5,945,976	8-31-99	Iwamura et al.	—	—	12-10-96
	52	5,948,055	9-7-99	Pulsipher et al.	—	—	8-29-96
	53	5,949,335	9-7-99	Maynard	—	—	4-14-98
	54	5,949,988	9-7-99	Feisullin et al.	—	—	4-3-97
<i>✓</i>	55	5,953,669	9-14-99	Stratis et al.	—	—	12-11-97

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AB	56	5,963,867	10-5-99	Reynolds et al.	—	—	8-16-95
	57	5,970,406	10-19-99	Komara	—	—	12-31-96
	58	5,987,328	11-16-99	Ephremides et al.	—	—	4-24-97
	59	6,006,021	12-21-99	Tognazzini	—	—	7-1-96
	60	6,018,625	1-25-00	Hayball et al.	—	—	8-27-97
	61	6,021,316	2-1-00	Heiska et al.	—	—	
	62	6,032,105	2-29-00	Lee et al.	—	—	7-31-97
	63	6,038,547	3-14-00	Casto	—	—	1-7-98
	64	6,044,273	3-28-00	Tekinay	—	—	12-10-96
	65	6,058,102	5-2-00	Drysdale et al	—	—	11-6-98
✓	66	6,058,262	5-2-00	Kawas et al.	—	—	4-18-97

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Filing Date 8/4/00	Group Art Unit

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AB	67 6,059,842	5-9-00	Dumarot et al.	—	—	4-14-98
	68 6,061,722	5-9-00	Lipa et al.	—	—	12-23-96
	69 6,075,541	6-13-00	Maclinovsky	—	—	11-7-97
	70 6,088,522	7-11-00	Lee et al.	—	—	7-31-97
	71 6,104,699	8-15-00	Holender et al.	—	—	
	72 6,108,309	8-22-00	Cohoe et al.	—	—	12-8-97
	73 6,111,857	8-29-00	Soliman et al.	—	—	9-11-97
	74 6,122,083	9-19-00	Ohta et al.	—	—	10-3-94
	75 6,148,010	11-14-00	Sutton et al.	—	—	6-24-98
	76 6,199,032	3-6-01	Anderson	—	—	7-22-98
	77 6,204,813	3-20-01	Wadell et al.	—	—	2-20-98

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AB	78	6,208,833	3-27-01	Preschutti et al.	—	—	6-24-97
	79	6,229,540	5-8-01	Tonelli et al.	—	—	10-13-98
	80	6,253,086	6-26-01	Parantainen et al.	—	—	3-25-99
	81	6,285,377	9-4-01	Greenbaum et al.	—	—	6-26-97
	82	6,289,203	9-11-01	Smith et al.	—	—	2-25-98
	83	6,317,599	11-13-01	Rappaport et al.	—	—	5-26-99
	84	6,326,987	12-4-01	Alexander	—	—	12-19-00
	85	6,330,005	12-11-01	Tonelli et al.	—	—	10-6-99
	86	6,311,144	10-30-01	Abu El Ata	—	—	7-31-98
	87	6,337,688	1-8-02	Berstis	—	—	1-29-99
	88	6,338,031	1-8-02	Lee et al.	—	—	9-23-99

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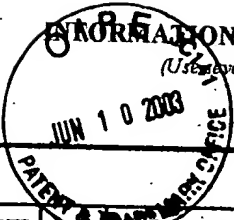
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Docket Number (Optional)

02560036A

Application Number

09/632,803

Applicant(s)

T. Rappaport et al.

Filing Date

8/4/00

Group Art Unit

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AB	89	6,356,758	3-12-02	Almeida et al.	—	—	12-31-97
	90	6,393,432	5-21-02	Flansburg et al.	—	—	6-2-99
	91	6,408,312	6-18-02	Forthman et al.	—	—	8-30-99
	92	6,442,507	8-27-02	Skidmore et al.	—	—	12-29-98
	93	6,470,195	10-22-02	Meyer	—	—	10-31-00
	94	6,487,417	11-26-02	Rossoni et al.	—	—	11-24-99
	95	6,493,679	12-10-02	Rappaport et al.	—	—	5-26-99
	96	6,496,290	12-17-02	Lee	—	—	12-17-98
	97	6,499,006	12-24-02	Rappaport et al.	—	—	7-14-99
	98	6,505,045	1-7-03	Hills et al.	—	—	4-10-00
V	99	5,586,254	12-17-96	Kondo	—	—	

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Application Number

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Applicant(s)

T. Rappaport et al.

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Group Art Unit

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MS	100	6,085,335	7-4-00	Djoko et al.	—	—	12-31-97
	101	5,710,758	1-20-98	Soliman et al.	—	—	9-29-95
	102	5,821,937	10-13-98	Tonelli et al.	—	—	8-12-96
	103	5,774,669	6-30-98	George et al.	—	—	7-28-95
	104	5,802,146	9-1-98	Dulman	—	—	11-22-95
	105	5,825,759	10-20-98	Liu	—	—	7-24-95
	106	5,845,124	12-1-98	Berman	—	—	5-1-96
	109	6,199,032	3-6-01	Anderson	—	—	7-22-98
	110	5,467,441	11-14-95	Stone et al.	—	—	10-6-94
	111	6,243,772	6-5-01	Ghori et al.	—	—	1-31-97
✓	112	5,994,984	11-30-99	Stancil et al.	—	—	5-29-98

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Filing Date 8/4/00	Group Art Unit

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AB	1	P. Bahl, V. Padmanabhan, and A. Balachandran, "A Software System for Locating Mobile Users: Design, Evaluation, and Lessons," Microsoft Technical Report, April 2000
AB	2	G. Durgin, T.S. Rappaport, H. Xu, Measurements and Models for Radio Path Loss and Penetration Loss in and Around Homes and Trees at 5.85 GHz," IEEE Transactions on Communications, vol. 46, no. 11, November 1998.
AB	3	C.M. Peter Ho et al., "Antenna Effects on Indoor Obstructed Wireless Channels and a Deterministic Image-Based Wide-Band Propagation Model for In-Building Personal Communications Systems," International Journal of Wireless Information Networks, Vol. 1, No. 1, 1994.
AB	4	S. Kim et al., "Radio Propagation Measurements and Predictions Using Three-dimensional Ray Tracing in Urban Environments at 908 MHz and 1.9 GHz," IEEE Transactions on Vehicular Technology, vol. 48, no. 3, May 1999
AB	5	T.S. Rappaport et al., "Use of Topographic Maps with Building Information to Determine Antenna Placements and GPS Satellite Coverage for Radio Detection and Tracking in Urban Environments," MPRG Technical Report MPRG-TR-95-14, Virginia Tech, September 1995
AB	6	R.K. Morrow, Jr. and T.S. Rappaport, "Getting In," Wireless Review Magazine, March 2000.
AB	7	Wireless Valley Communications, Inc., "SitePlanner 3.0 for Windows 95/98/NT User's Manual," Software User's Manual, pp. 5-148 to 5-156, 1999. 1-185, 1998. 3.0
AB	8	M. Panjwani et al., "Interactive Computation of Coverage Regions for Wireless Communication in Multifloored Indoor Environments," IEEE Journal on Selected Areas in Communications, Vol. 14, No. 3, April 1996.
AB	9	L. Piazzzi and H.L. Bertoni, "Achievable Accuracy of Site-Specific Path-Loss Predictions in Residential Environments" IEEE Transactions on Vehicular Technology, vol. 48, no. 3, May 1999.
AB	10	T.S. Rappaport et al., "Wireless Communications: Past Events and a Future Perspective", IEEE Communications Magazine, May 2002.
AB	11	T.S. Rappaport et al., "Radio Propagation Prediction Techniques and Computer-Aided Channeling Modeling for Embedded Wireless Microsystems," ARPA Annual Report, MPRG Technical Report MPRG-TR-94-12, Virginia Tech, July 1994.
AB	12	T.S. Rappaport et al., "Use of Topographic Maps with Building Information to Determine Antenna Placements for Radio Detection and Tracking in Urban Environments," MPRG Technical Report MPRG-TR-95-14, Virginia Tech, November 1995

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Document Number (Optional) 0256003	Application Number 09/632,803
Applicant(s) T. Rappaport et al.	
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AB	13	D. Ullmo et al., "Wireless Propagation in Buildings: A Statistical Scattering Approach," IEEE Transactions on Vehicular Technology, Vol. 48, No. 3, May 1999.
AB	14	T.S. Rappaport, "wireless Communications: Principles and Practice" Second Edition, Prentice Hall, 2002.
AB	15	T.S. Rappaport et al., "Use of Topographic Maps with Building Information to Determine Antenna Placements and GPS Satellite Coverage for Radio Detection and Tracking in Urban Environments," MPRG Technical Report MPRG-TR-95-14, Virginia Tech, September 1995.
AB	16	T.S. Rappaport et al., "Indoor Path Loss Measurement for Homes and Apartments at 2.4 and 5.85 GHz," private report produced for Motorola, December 16, 1997.
AB	17	T.S. Rappaport, "Isolating Interference," Wireless Review Magazine, May 2000.
AB	18	Slides from T.S. Rappaport and R. Skidmore, "Introduction to In-Building Wireless Systems," Infocast In-Building Wireless Solutions Conference and Exposition, February 4, 2003.
AB	19	S. Sandhu, M.P. Koushik, and T.S. Rappaport "Predicted Path Loss for Reston VA, First set of predictions for ORD Project on Site Specific Propagation Prediction," MPRG Technical Report MPRG-TR-94-20, Virginia Tech, December 1994.
AB	20	S. Sandhu, M.P. Koushik, and T.S. Rappaport, "Predicted Path Loss for Reston VA, First set of predictions for ORD Project on Site Specific Propagation Prediction," MPRG Technical Report MPRG-TR-94-20, Virginia Tech, March 1995.
AB	21	S. Seidel et al., "Site-Specific Propagation Prediction for Wireless In-Building Personal Communication Design," IEEE Transactions on Vehicular Technology, Vol. 43, No. 4, November 1994.
AB	22	S. Shakkottai and T.S. Rappaport, "Research Challenges in Wireless Networks: A Technical Overview," Proceeding of the Fifth International Symposium on Wireless Personal Multimedia Communications, Honolulu, HI, October 2002.
AB	23	H. Sherali et al., "On the Optimal Location of Transmitters for Micro-cellular Radio Communication System Design," IEEE Journal on Selected Areas in Communications, Vol. Vol. 14, No. 3, pp. 662-673, May 1996.
AB	24	R. Skidmore et al., "A Comprehensive In-Building and Microcellular Wireless Communication System Design Tool" The Bradley Department of Electrical Engineering, MPRG-TR-97-13, June 1997. Master's Thesis - unpublished by Virginia Tech for 2 years after submission.

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Technology Center 2100

EXAMINER <i>AB Brode</i>	DATE CONSIDERED <i>25 March 2004</i>
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*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION

(Use additional sheets if necessary).

JUN 10 2003

Docket Number (Optional)

02560036AA

Application Number

09/632,803

Applicant(s)

T. Rappaport et al.

Filing Date

8/4/00

Group Art Unit

EXAMINER
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R. Skidmore et al., "Interactive Coverage Region and System Design Simulation for Wireless Communication Systems in Multi-Floored Indoor Environments: SMT Plus *tm*," IEEE ICUPC Proceedings, 1996.

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T.S. Rappaport et al., "Radio Propagation Prediction Techniques and Computer-Aided Channel Modeling for Embedded Wireless Microsystems," MPRG Tech. Report MPRG-TR-95-08, Virginia Tech, July 1995.

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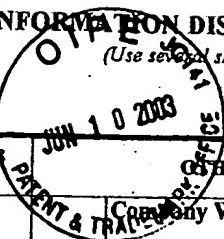
Applicant(s)

T. Rappaport et al.

Filing Date

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Company Web Page "Actix" www.actix.com product name: E-NOS (now E-AMS)

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Company Web Page "Agilent" www.agilent.com product name: OPAS32

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Company Web Page "Agilent" www.agilent.com product name: Wizard

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Company Web Page "Comarco" www.edx.com product name: SignalPro

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Company Web Page "ComOpt" www.comopt.com product name: CellOpt AFP

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Company Web Page "Lucent" www.bell-labs.com product name: WiSE

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Company Web Page "Ericsson" www.ericsson.com product name: TEMS Lite

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Company Web Page "Marconi" www.marconi.com product name: PlanET

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Company Web Page "Marconi" www.marconi.com product name: decibelPlanner

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Company Web Page "Schema" www.schema.com product name: Optimizer

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Company Web Page "ScoreBoard" www.scoreboard.com product name: ScoreBoard

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